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NOTICE OF ALLOWANCE AND FEE(S) DUE

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12/30/2009

DRINKER BIDDLE & REATH (DC) 1500 K STREET, N.W. SUITE 1100 WASHINGTON, DC 20005-1209 EXAMINER

KHAN, FARID H

ART UNIT PAPER NUMBER

2893

DATE MAILED: 12/30/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/594.949	06/21/2007	Takeshi Sakamoto	46884-5520 (232061)	1891	

TITLE OF INVENTION: LASER PROCESSING METHOD AND SEMICONDUCTOR CHIP

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/30/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

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WASHINGTON	I, DC 20005-1209		ĺ						(Depositor's name)
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APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	ГOR	A	TTOF	RNEY DOCKET NO.	CON	FIRMATION NO.
10/594,949	06/21/2007		Takeshi Sakamoto	,	•	4688	4-5520 (232061)		1891
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EXAM	INER	ART UNIT	CLASS-SUBCLASS	\Box					
KHAN, F		2893	438-460000						
Change of correspondence address or indication of "Fee Address" (37 FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			2. For printing on the patent front page, list (I) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.						
PLEASE NOTE: Unl	less an assignee is identi h in 37 CFR 3.11. Comp	A TO BE PRINTED ON The strength of the low, no assignee deletion of this form is NO	data will appear on th	ne pa g an a	tent. If an assignee assignment. and STATE OR CO	UNT	RY)		
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/594,949	06/21/2007	Takeshi Sakamoto	46884-5520 (232061)	1891		
55694 75	590 12/30/2009		EXAMINER			
DRINKER BIDI	DLE & REATH (DC)	KHAN, FARID H				
1500 K STREET,	N.W.		ART UNIT	PAPER NUMBER		
SUITE 1100 WASHINGTON, I	OC 20005-1209		2893 DATE MAILED: 12/30/200	9		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 224 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 224 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)					
	10/594,949	SAKAMOTO ET AL.					
Notice of Allowability	Examiner	Art Unit					
	FARID KHAN	28 9 3					
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not include will be mailed in due	ed course. THIS				
1. This communication is responsive to <u>07/14/2009</u> .							
2. \blacksquare The allowed claim(s) is/are 22-25,27,28,30-40,42 and 44-4	<u>6</u> .						
 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements 							
noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.							
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 			IOTICE OF				
5. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the state of the property of the state of the property of the state of the property of the p	on's Patent Drawing Review (PTO-S s Amendment / Comment or in the O 84(c)) should be written on the drawin	office action of	∍ back) of				
6. ☐ DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT I			Note the				
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☑ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date See Continuation Sheet	5. ☐ Notice of Informal Pa 6. ☐ Interview Summary Paper No./Mail Dat 7. ☐ Examiner's Amendm	(PTO-413), e					
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Stateme 9. □ Other	nt of Reasons for Allo	wance				

Continuation of Attachment(s) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date: 04/21/09, 07/29/09, 09/10/09.

DETAILED ACTION

Information Disclosure Statement

The Information Disclosure Statement filed on 04/21/2009, 07/29/2009, and 09/10/2009 have been considered.

Response to amendment

The amendment filed on 07/14/2009 has been entered. Claims 22- 25, 36, 37, 39, 40, 42 and 44 have been amended. Claims 26, 29, 41 and 43 have been canceled. Claims 22-25, 27, 28, 30-40, 42 and 44-46 are pending.

Claim Rejections - 35 USC § 112

Claims 22-26, 29, 36-37, 39-41, and 43 were rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as his invention. In view of the amendments to the above mentioned claims, the claim rejections are withdrawn.

Priority

The submission of a certified English translation of the foreign application (JP 2004-100931, filed 3/30/2004) is acknowledged. Therefore, Iri et al. (USPN 7,211,526) is not available as a prior art".

Response to Arguments

Applicant's arguments filed 07-14-2009 have been fully considered and are persuasive. The rejections of claims 22-25, 27, 28, 30-40, 42 and 44-46 have been withdrawn.

Allowable Subject Matter

Claims 22-25, 27, 28, 30-40, 42 and 44-46 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

The prior art made of record is considered pertinent to applicant's disclosure: US Patent Publication 2004/0002199 by Fukuyo et al. from hereinafter "Fukuyo".

Fukuyo teaches a laser processing method of irradiating a substrate having a front face including a plurality of functional devices with laser light while locating a light-converging point within the substrate so as to form a modified region to become a start point for cutting within the substrate along a line to cut of the substrate; forming a first modified region along the line to cut and forming at least one row of a second modified region along the line to cut. However,

Regarding claims 22, 24, 39, 40 the prior art does not teach or suggest the limitation "a distance between the front face of the substrate and an end part of the first modified region on the front face side of the substrate is 5 µm to 15 µm".

Furthermore, the prior art does not teach or suggest the limitation "<u>a distance</u> between the front face of the substrate and an end part of the first modified region on a rear face side of the substrate is [5 + (the substrate thickness) x 0.1] μm to [20 + (the substrate thickness) x 0.1] μm)" (claims 27, 30, 42, and 44).

Any comments considered necessary by applicant must be submitted no later than the payment of issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/594,949 Page 4

Art Unit: 2893

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to FARID KHAN whose telephone number is (571)270-7437. The examiner can normally be reached on 8:00 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Davienne Monbleau can be reached on (571) 272-1945. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Farid Khan/ Examiner, Art Unit 2893 November 4, 2009.

/A. Sefer/
Primary Examiner
Art Unit 2893